

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/29/2008 has been entered.

Response to Arguments

2. In response to communications filed on 12/29/2008, Applicant has amended claim 1; the following claims 1-8 are presented for examination.

3. Applicant's arguments see pages 5-8, filed on 12/29/2008, have been fully considered. All the claim rejections have been withdrawn with respect to the Examiner's amendment.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's attorney Babak Akhlaghi on 2/10/2009 and 2/26/2009.

The application has been amended as follows:

1. (Currently amended) A method for updating a program in a system including an LSI device and an external memory, the method comprising:

a step of transmitting by the system an ~~inherent~~ ID, which is implemented before the program update, of the LSI device and an application ID which is identification information of an update object program to a server;

a step of determining by the server whether or not the update object program may be transmitted based on the transmitted ~~inherent~~ ID and application ID, and transmitting by the server additional information of the update object program if it is determined that the update object program may be transmitted;

a step of determining by the system whether or not program update is possible based on the transmitted additional information, and requesting by the system that the server to transmit a common key-encrypted program generated by encryption with a common key if it is determined that program update is possible;

a step of receiving by the system the common key-encrypted program transmitted from the server;

a step of decrypting by the system the received common key-encrypted program to generate a raw program; [[and]]

a step of re-encrypting by the system the raw program with an inherent key unique to the LSI device and storing the re-encrypted program in the external memory as a new inherent key-encrypted program;

a step of determining whether updating the program was successfully performed; and
a step of deleting old program from a secure memory and writing information about the update object program into the secure memory if it is determined that updating the program was successfully performed.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance:

The prior art of record either alone or in combination fails to teach or render obvious:

“ A method for updating a program in a system including an LSI device and an external memory, the method comprising:

a step of transmitting by the system an ID, which is implemented before the program update, of the LSI device and an application ID which is identification information of an update object program to a server;

a step of determining by the server whether or not the update object program may be transmitted based on the transmitted ID and application ID, and transmitting by the server additional information of the update object program if it is determined that the update object program may be transmitted;

a step of determining by the system whether or not program update is possible based on the transmitted additional information, and requesting by the system that the server to transmit a

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common key-encrypted program generated by encryption with a common key if it is determined that program update is possible;

a step of receiving by the system the common key-encrypted program transmitted from the server;

a step of decrypting by the system the received common key-encrypted program to generate a raw program;

a step of re-encrypting by the system the raw program with an inherent key unique to the LSI device and storing the re-encrypted program in the external memory as a new inherent key-encrypted program;

a step of determining whether updating the program was successfully performed; and

a step of deleting old program from a secure memory and writing information about the update object program into the secure memory if it is determined that updating the program was successfully performed” as recited in amended claim 1.

Consequently, claims 1-8 are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARL COLIN whose telephone number is (571)272-3862. The examiner can normally be reached on Monday through Thursday, 8:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Carl Colin/

Primary Examiner, Art Unit 2436

March 6, 2009